

Amendments to the Claims

This list of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A system for regulating the flow of cerebrospinal fluid from the brain of an individual comprising an implantable controller adapted to be in fluid communication with said cerebrospinal fluid and having first and second drainage paths, said first drainage path comprising a passive low resistance flow path and said second drainage path comprising a programmable variable check valve, wherein said controller directs the flow of said cerebrospinal fluid into said first or second drainage paths in response to the inclination of said individual.

Claim 2(original): The system of claim 1, wherein said first drainage path is a supine flow path, and wherein said controller directs the flow of said fluid into said supine flow path when said individual's inclination is supine or substantially supine.

Claim 3(original): The system of claim 1, wherein said second drainage path is an upright flow path, and wherein said controller directs the flow of said fluid into said

upright flow path when said individual's inclination is vertical or substantially vertical.

Claim 4(original): The system of claim 1, further comprising an inclination sensor for sensing the inclination of said individual, and wherein said controller is responsive to said inclination sensor.

Claim 5(original): The system of claim 4, further comprising a bi-stable latching valve, and wherein said controller directs the flow of said fluid by actuating said latching valve to allow for fluid communication with said first or said second drainage paths.

Claim 6(cancelled)

Claim 7(original): The system of claim 1 6, wherein said passive low resistance flow path maintains a maximum intraventricular pressure of about 15 mm Hg.

Claim 8(original): The system of claim 1, ~~further comprising a programmable variable check valve in said second flow path,~~ wherein the cracking pressure of said check valve is modified based on the inclination angle of said individual.

Claim 9(original): The system of claim 8, wherein said cracking pressure is continually modified to maintain a relatively stable intraventricular pressure for a range of inclination angles.

Claim 10(original): The system of claim 9, wherein said stable intraventricular pressure is between 5 and -5 mm Hg.

Claim 11(original): The system of claim 1, wherein said controller implanted in said individual further comprises:

- an inlet connection;

- an outlet connection spaced from said inlet connection;

- an inlet cannula with a distal and proximal end, wherein said distal end of said inlet cannula is located near the ventricle of the brain and said proximal end of said inlet cannula is connected to said inlet connection of said controller; and

- an outlet cannula with a distal and proximal end, wherein the location of said distal end of said outlet cannula is selected from the group consisting of the peritoneal space and the right atrium of the heart, and said proximal end of said outlet cannula is connected to said outlet connection of said controller.